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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/693,079	10/20/2000	Gregory John McAvoy	MJ20US	7858
24011	7590 05/18/2004		EXAMINER	
SILVERBROOK RESEARCH PTY LTD			TURNER, ARCHENE A	
393 DARLIN BALMAIN,	NG STREET 2041		ART UNIT	PAPER NUMBER
AUSTRALL	= - : -		1775	
			DATE MAIL ED: 05/19/200	A

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	3,			
Office Action Summary		09/693,079	MCAVOY ET AL.	•			
		Examiner	Art Unit				
		Archene Turner	1775				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on 10 M	arch_2004.					
•	This action is FINAL . 2b) This action is non-final.						
3)□							
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 5,7 and 9 is/are pending in the applicated 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 5,7,9 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.					
Applicat	ion Papers		·				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority (under 35 U.S.C. § 119						
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
	e of References Cited (PTO-892)	4) ☐ Interview Summary					
2) Notice 3) Information	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claim 9 is rejected under 35 U.S.C. 102(b) as being anticipated by Chan et al (5,917,226).

The rejection is maintained for reason of record in paper sent 12-30-02.

Applicant's arguments filed 3-2004 have been fully considered but they are not persuasive. The applicant argues that the claimed element is not the same as the reference. The examiner does not agree. In claim 4 of the reference, Chan et al explicitly discloses the claimed chemical components, and the rejection stands.

3. Claims 7,9 are rejected under 35 U.S.C. 102(e) as being anticipated by Carr (6,130,464).

The rejection is maintained for reason of record in paper sent 12-30-02.

Applicant's arguments filed 3-2004 have been fully considered but they are not persuasive. The applicant argues that the disclosed element of the reference is a switch and not responsive to thermal energy. The examiner disagrees. The applicant even explicitly states that the element responses to thermal energy

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and thus the rejection stands. The applicant's attention is directed to column 6, line 38, where the reference explicitly discloses the claimed metal compound.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 5, 7, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang et al ("Testing and Characterization....Analysis") and Ozaki et al (5,409,762). The rejection is maintained for reason of record in paper sent 12-30-02. Applicant's arguments filed 3-2004 have been fully considered but they are not persuasive. The applicant is reminded that The applicant is reminded that one cannot show non-obviousness by attacking the references individually where the rejection is based on the combination of references (In re Young, 159 USPQ 725 (CCPA 1968)). The test for combining references is what the combination of disclosures taken as a whole would suggest to one of ordinary skill in the art (In re Simon, 174 USPQ 114 (CCPA 1972)). Yang et al discloses that metal nitrides are known to be used in an actuator and Ozaki et al specifically describes the grouping of metal compounds used in electrical materials. This grouping

disclosed by Ozaki et al included equivalents of nitrides to borides, silicides and

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carbides, and titanium to the other transitional metals and thus the rejection stands.

- 6. The applicant is reminded that it is elementary that the mere recitation of a newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to distinguish over the prior art. Additionally, where the Patent Office has reason to believe that the functional limitation asserted to be critical for establish novelty in the claimed subject matter may, in fact, be an inherent characteristic of the prior art, it possesses the authority to require the applicant to0 prove that the subject matter shown to be in the prior art does not possess the characteristic relied on. (In re Swinehart, 169 USPQ 226 (CCPA 1971)). The properties exerted inn the claims are inherent in the claimed metal compounds disclosed.
- 7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Archene Turner whose new telephone number is (571) 272-1545. The examiner can normally be reached on Monday through Wednesday, and Friday from 10:30 am. to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Please remember to include on the fax, the art unit 1775, serial number and Examiner's name.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. A. Turner Primary Examiner Group 1700